

Electromagnetic Spectrum

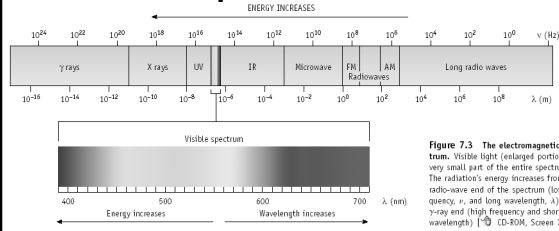
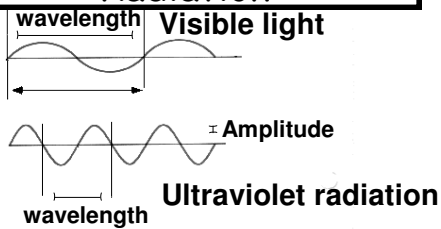


Figure 7.3 The electromagnetic spectrum. Visible light (enlarged portion) is a very small part of the entire spectrum. The radiation's energy increases from the radio-wave end of the spectrum (low frequency, ν , and long wavelength, λ) to the γ -ray end (high frequency and short wavelength). [© CD-ROM, Screen 7.4].

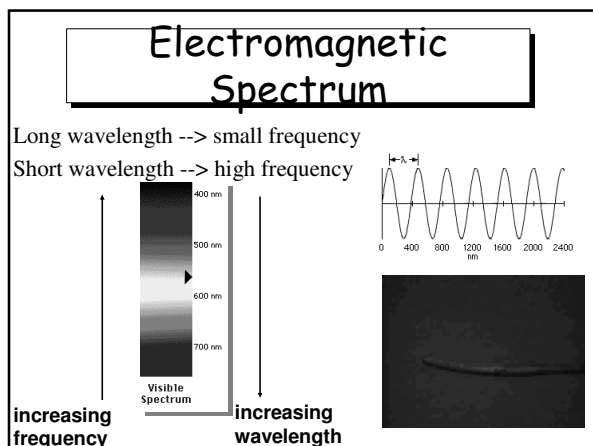
In increasing energy, ROY G BIV

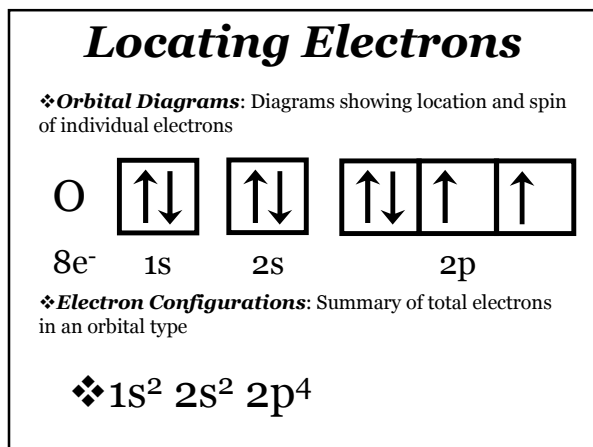
Electromagnetic Radiation

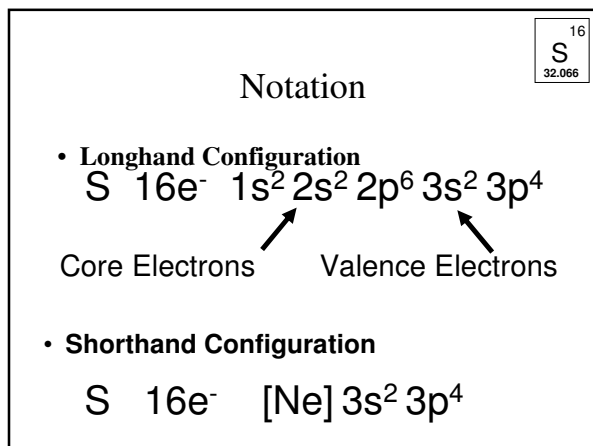


Electromagnetic Radiation

- Waves have a frequency
- Use the Greek letter “nu”, ν , for frequency, and units are “cycles per sec”
- All radiation: $\lambda \cdot \nu = c$
where c = velocity of light = 3.00×10^8 m/sec







Shorthand Configuration

